B Plant Complex Rev. 9, 06/02/2002, 1 of 21

FOR	М 3	D/	NGEROUS V	VASTE PERMIT APPL	ICATION	I. EPA/State I.D. No.
			ANGENOOG V	VAOILI LIMIII AITE	LICATION	W A 7 8 9 0 0 0 8 9 6 7
FOR O	FFIC	IAL USE ONLY	7			
Applica		Date Receive			Comments	
Appro	ved	(month/ day / ye	ear)	Δ		4/00
				Арр	roved 07/2	4/02
II. FIR	ST O	R REVISED AF	PPLICATION			
						he first application you are submitting for
				your first application and you a STATE I.D. Number in Section		ity's EPA/STATE I.D. Number, or If this is
A. Fi	irst A	pplication (place	an "X" below and	provide the appropriate date)		
	□ 1.		ity (See instruction	s for omplete item below.)	2. New Facility (Complete item below.)
M	0			For existing facilities, provide the	MO	DAY YEAR For new facilities, provide the
0:			943	date (mo/day/yr) operation began the date construction commenced. (use the boxes to the left)		date (mo/day/yr) operation began or is expected to begin
		*Th	e date construction of	f the Hanford Facility commenced		
B. R	evised	l Application (Pl	ace an "X" below	and complete Section I above)		
	\boxtimes	1. Facility has a	n interim Status l	Permit	2. Facility has a	Final Permit
III. PR	OCES	SSES – CODES	AND DESIGN CA	APACITIES		
co pr	odes. I	f more lines are nee including its design	eded, enter the codes(n capacity) in the spa		ess will be used that is not	d at the facility. Ten lines are provided for entering included in the list of codes below, then describe the
					r	
1. 2.	Unit				m the list of unit measure	codes below that describes the unit of measure used.
			PROCESS		PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
STORA	GE:					
Con	tainer ((barrel, drum, etc.)			S01	Gallons or liters
Tanl					S02	Gallons or liters
	te pile	poundment			S03 S04	Cubic yards or cubic meters Gallons or liters
Surr	ucc iiii	poundment			S06	Cubic yards or cubic meters*
DISPOS	AL:					
	ction w	ell			D80	Gallons or liters
Lanc	dfill				D81	Acre-feet (the volume that would cover one acre to a Depth of one foot) or hectare-meter
Land	d appli	cation			D82	Acres or hectares
	an disp				D83	Gallons per day or liters per day
		poundment			D84	Gallons or liters
TREAT		Γ:				
Tanl		poundment			T01 T02	Gallons per day or liters per day Gallons per day or liters per day
	nerator	•			T03	Tons per hour or metric tons per hour; gallons
						per hour or liters per hour
proc	esses r	not occurring in tan	cal, thermal or biolog ks, surface impound cesses in the space p		T04	Gallons per day or liters per day
Unit of	Meas	ure Unit of	Measure Code	Unit of Measure Unit	of Measure Code	Unit of Measure Unit of Measure Code
				Liters Per Day	V	Acre-FeetA
				Tons Per Hour	D	Hectare-MeterF
				Metric Tons Per Hour		AcresB
Cubic M		 Dav		Gallons Per Hour		HectaresQ

ECY 030-31 Form 3 (Rev. 7/97)
*Add per request of Washington State Department of Ecology (01/2001)

III. PROCESS – CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line		cess Code		B. Process Design Capa							
No. (from list above)				1. Amount (Specify)	2. Unit of Measure (enter code)			For Official Use Only			
X-1	S	0	2	600	G						
X-2	T	0	3	20		Ε					
1	S	0	2	811,280		L					
2	Т	0	1	107,126		V					
3	S	0	1	51,008		L					
4	S	0	6	35,170		С					
5											
6											
7											
8											
9			•								
10			•								

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

B Plant, which was constructed in 1943 and began operation in April of 1945, is located in the northwestern portion of the 200 East Area. The first mission for B Plant was the recovery of plutonium using a bismuth phosphate chemical separation process (1945 to 1952). In the early 1960's, B Plant was modified for a second mission, the recovery and purification of cesium and strontium. The cesium and strontium were encapsulated and stored in the Waste Encapsulation and Storage Facility (WESF).

Presently, the B Plant Complex consists of the main facility (221-B) and various support structures (page 12 of 21). The B Plant Complex contains five dangerous waste storage and/or treatment tank systems, Cell 4 container storage, and containment building storage. Most waste handling activities were conducted in the 221-B Building. The 221-B Building used a remote process cell design to house the process tanks and associated equipment. A typical cell is 5.5 meters long by 3.9 meters wide by 8.5 meters deep. Each cell is covered with four concrete cover blocks. In addition, the 221-B Building is made of reinforced concrete and is 259.1 meters long by 20.7 meters wide by 22.5 meters high, covering an area of 5,369.8 square meters. Additional operations also were carried out in the 221-BB Building, the 221-BF Facility, and the 276-BA Facility. (Refer to the B Plant Complex Vessel Table, following.)

S02/T01

NEUTRALIZED CURRENT ACID WASTE (NCAW) TREATMENT AND STORAGE SYSTEM: The NCAW treatment and storage system is located in the 221-B Building. The NCAW was transferred to the B Plant Complex (221-B Building) for the Tank Waste Remediation pretreatment project. The NCAW inventory was transferred back to the Double-Shell Tank (DST) System in May 1993 after the Tank Waste Remediation pretreatment project was canceled. Although no waste currently is being stored or treated, and there is no intention of future storage or treatment of any waste in this tank system, the system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

LOW-LEVEL WASTE (LLW) TREATMENT AND STORAGE SYSTEM: The LLW treatment and storage system is located within the 221-B Building. Treatment of low-level waste (to meet DST System acceptance standards) includes the addition of sodium hydroxide until the pH is greater than 12.0. Treatment also includes the addition of sodium nitrite until the nitrite concentration is above 600 parts per million and any other chemicals required to meet the acceptance criteria. The low-level waste tank storage was intended for waste generated at the 221-B Building and WESF that was not be transferred within 90 days to the DST System. There is no intent or plan to store low-level waste at the 221-B Building from other sources. Although no waste currently is being stored or treated, and there is no intention of future storage or treatment of any waste in this tank system, the system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

LOW-LEVEL WASTE CONCENTRATOR: The low-level waste concentrator (formerly known as the single-stage thermal siphon reboiler), located in Cell 23 of the 221-B Building, was operated to concentrate the low-level waste in the low-level waste storage and treatment tank system. The low-level waste concentrator is a thermal siphon and shell and tube heat exchanger. This system currently is inactive with no intention of resuming operation and is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

S02/T01 (cont)

ORGANIC MIXED WASTE STORAGE: The organic mixed waste storage tank system was used to store organic solvent used in recovery and purification of strontium and cesium. The system consists of vessels located in the 221-B Building and in 276-BA Facility. The organic mixed waste was transferred to an off-site TSD facility for disposal by incineration in late 1997. This system currently is inactive with no intention of resuming operation and is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

ISO WEST TANK CLOSURE: The 276-BA Facility was constructed with two identical storage tanks. Of these two tanks, the ISO West tank never managed organic mixed waste. In 1998, the ISO West tank was administratively closed (98-EAP-136, Letter, James E. Rasmussen, RL, to R. E. Skinnarland, Ecology, CERTIFIED ISO WEST INTERIM ORGANIC STORAGE TANK (ISO WEST TANK) ADMINISTRATIVE CLOSURE TECHNCIAL DATA SYNOPSIS (TSD: TS-2-3), dated March 4, 1998; Letter, Shri Mohan, Ecology, to James Rasmussen, RL, RE: APPROVAL OF THE PROCEDURAL CLOSURE OF THE B PLANT INTERNATIONAL STANDARDS ORGANIZATION (ISO) WEST TANK ADMINISTRATIVE CLOSURE, dated October 20, 1998). The ISO West tank has been removed from the B Plant Complex for use elsewhere on the Hanford site.

MISCELLANEOUS TANKS STORAGE SYSTEM: The miscellaneous tanks are located in the 221-B Building, the 221-BB Building, and the 221-BF Facility. The miscellaneous tanks in the B Plant Complex that managed mixed waste after the 1987 date of regulation for mixed waste in the state of Washington are identified on the B Plant Complex Vessel Table. This system currently is inactive with no intention of using these tanks for future waste management activities. This system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

S01

CELL 4 CONTAINER STORAGE: The 221-B Building Cell 4 containerized waste storage unit is used for the storage of 208-liter (55-gallon) containers. Waste stored in Cell 4 containers consists of solid mixed waste with no free liquids. Waste stored in Cell 4 includes light bulbs with lead solder. There is no intent to receive additional waste in Cell 4. The maximum design capacity for container storage is 51,008 liters.

S06

CONTAINMENT BUILDING/STORAGE: The designation S06 (containment building/storage) has been used to indicate that the solid mixed waste stored in the 221-B Building (on the canyon deck and in various cells) is considered to be in a containment building subject to the requirements of 40 CFR 265, Subpart DD and WAC 173-303-400(3)(a). The solid mixed waste consists of radioactively contaminated failed canyon process equipment, jumpers and lead shielding materials. The failed canyon process equipment and jumpers (or isolated components thereof) contain lead used as weights, counterweights, or radioactive shielding. The lead shielding materials include lead blankets, lead sheets, lead bricks, and lead window glass. The solid mixed waste also could be contaminated with residues from the processing of tank waste. Future additions of waste to the containment building will be restricted to the types of waste described above. The maximum storage capacity is 35,170 cubic meters.

B PLANT COMPLEX VESSEL TABLE

NEUTRALIZED CURRENT ACID WASTE (NCAW)										
	ENT AND STORAGE									
Vessel ID	Location	Capacity (liters)								
TK-6-2	221-B, Cell 6	19,684								
TK-7-1	221-B, Cell 7	19,306								
TK-7-2	221-B, Cell 7	18,927								
TK-8-1	221-B, Cell 8	19,684								
TK-8-2	221-B, Cell 8	19,684								
TK-13-1	221-B, Cell 13	15,142								
TK-14-2	221-B, Cell 14	14,763								
TK-29-3	221-B, Cell 29	15,520								
TK-39-2	221-B, Cell 39	6,814								
TK-39-5	221-B, Cell 39	7,571								
LOW-LEVEL WAS	TE (LLW) TREATMEN SYSTEM	IT AND STORAGE								
Vessel ID	Location	Capacity (liters)								
TK-9-1	221-B, Cell 9	19,684								
TK-9-2	221-B, Cell 9	19,684								
TK-10-1	221-B, Cell 10	37,839								
TK-24-1	221-B, Cell 24	52,616								
TK-25-1	221-B, Cell 25	18,548								
TK-25-2	221-B, Cell 25	18,548								
TK-26-3	221-B, Cell 26	9,922								
TK-39-1	221-B, Cell 39	13,120								
NCAW and LLW storage capacity* 347,056										
NCAW and LLW trea	atment capacity*	79,493 per day								

LOW-LEVEL WASTE (LLW) CONCENTRATOR										
Vessel ID	Location	Capacity (liters)								
E-23-3	221-B, Cell 23	11,356								
E-23-3-1	221-B, Cell 23	0								
E-23-3-2	221-B, Cell 23	0								
D-23-2	221-B, Cell 23	0								
E-23-4	221-B, Cell 23	0								
TK-23-1	221-B, Cell 23	2,990								
Storage capacity*	14,346									
Treatment capacity	*	27,633 per day								

ORGANIC MI	XED WASTE STORA	AGE SYSTEM				
Vessel ID	Location	Capacity (liters)				
TK-26-1	221-B, Cell 26	14,763				
TK-27-2	221-B, Cell 27	7,571				
TK-27-3	221-B, Cell 27	14,385				
TK-27-4	221-B, Cell 27	1,060				
TK-28-3	221-B, Cell 28	14,385				
TK-28-4	221-B, Cell 28	1,060				
TK-29-4	221-B, Cell 29	492				
TK-30-3	221-B, Cell 30	15,520				
ISO EAST	276-BA	17,500				
Storage capacity*		86,736				

MISCELLANEOUS TANK SYSTEM										
Vessel ID	Location	Capacity (liters)								
E-5-2	221-B, Cell 5	1,639								
TK-17-1	221-B, Cell 17	18,700								
TK-17-2	221-B, Cell 17	18,908								
T-18-2	221-B, Cell 18	11,761								
TK-18-3	221-B, Cell 18	2,794								
E-20-2	221-B, Cell 20	1,552								
TK-21-1	221-B, Cell 21	53,272								
TK-22-1	221-B, Cell 22	1,775								
T-28-1	221-B, Cell 28	2,642								
TK-29-2	221-B, Cell 29	15,077								
T-30-1	221-B, Cell 30	2,634								
TK-32-1	221-B, Cell 32	15,024								
TK-33-1	221-B, Cell 33	53,211								
TK-34-2	221-B, Cell 34	15,520								
TK-35-2	221-B, Cell 35	15,002								
TK-36-1	221-B, Cell 36	15,547								
TK-100	221-B, Canyon Deck	15,122								
ВСР	221-BB	2,271								
BCS	221-BB	2,271								
221-BF-A	221-BF	49,210								
221-BF-B	221-BF	49,210								
Storage capacity*		363,142								

^{*} Treatment and storage capacities are provided to reflect past operations. Current and/or future B Plant activities do not propose utilization of treatment or storage capacity beyond what has been agreed to for facility transition purposes under Section 8 of the Hanford Federal Facility Agreement and Consent Order.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. Dangerous Waste Number Enter the digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four-digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- **B.** Estimated Annual Quantity For each listed waste entered in column A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. Unit of Measure For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate odes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
Pounds	P	Kilograms	K
Tons	T	Metric Tons	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

1. Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste.

	ine A. Dangerous Waste No.					C. Unit of Measure			D. Processes					
No.	enter code)				Quantity of Waste	(enter code)			1. Process Codes (enter)				2. Process Description (if a code is not entered in D(1))	
X-1	K	0	5	4	900		P		T03	D80	D80			
X-2	D	0	0	2	400		P		T03	D80				
X-3	D	0	0	1	100		P		T03	D80				
X-4	D	0	0	2					T03	D80			Included with above	

Photocopy this page before completing if you have more than 26 wastes to list.

W A 7 8 9 0 0 0 8 9 6 7	I.I	I.D. Number (enter from page 1)												
	W	Α	7	8	9	0	0	0	8	9	6	7		

IV. D	V. DESCRIPTION OF DANGEROUS WASTES (continued)												
Line	ΔDs	ngeroi	ıs Wası	te No	B. Estimated Annual	C. Unit of Measure		D. Processes					
No.	n. De		code)	ic 110.	Quantity of Waste	(enter code)	1. I	Process Codes (enter)	2. Process Description (if a code is not entered in D(1))				
1	D	0	0	8	6,804	K	S01		Storage-Container				
2	W	Т	0	1		К	S01		Storage-Container				
3	W	Т	0	2		К	S01		Storage-Container				
4	D	0	0	2	6,804	К	S06		Containment Building/Storage				
5	D	0	0	4		К	S06		Containment Building/Storage				
6	D	0	0	5		К	S06		Containment Building/Storage				
7	D	0	0	6		К	S06		Containment Building/Storage				
8	D	0	0	7		К	S06		Containment Building/Storage				
9	D	0	0	8		К	S06		Containment Building/Storage				
10	D	0	0	9		К	S06		Containment Building/Storage				
11	D	0	1	0		К	S06		Containment Building/Storage				
12	D	0	1	1		К	S06		Containment Building/Storage				
13	F	0	0	1		К	S06		Containment Building/Storage				
14	F	0	0	2		К	S06		Containment Building/Storage				
15	F	0	0	3		К	S06		Containment Building/Storage				
16	F	0	0	4		К	S06		Containment Building/Storage				
17	F	0	0	5		К	S06		Containment Building/Storage				
18	W	Т	0	1		К	S06		Containment Building/Storage				
19	W	Т	0	2		К	S06		Containment Building/Storage				
20	D	0	0	2	375,627*	K	S02		Storage-Tank				
21	D	0	0	4		K	S02		Storage-Tank				
22	D	0	0	5		K	S02		Storage-Tank				
23	D	0	0	6		K	S02		Storage-Tank				
24	D	0	0	7		K	S02		Storage-Tank				
25	D	0	0	8		K	S02		Storage-Tank				
26	D	0	0	9		K	S02		Storage-Tank				
27	D	0	1	0		K	S02		Storage-Tank				
28	D	0	1	1		K	S02		Storage-Tank				
29	F	0	0	1		K	S02		Storage-Tank				
30	F	0	0	2		K	S02		Storage-Tank				
31	F	0	0	3		K	S02		Storage-Tank				
32	F	0	0	4		K	S02		Storage-Tank				
33	F	0	0	5		K	S02		Storage-Tank				
34	W	Т	0	1		K	S02		Storage-Tank				
35	W	Т	0	2		K	S02		Storage-Tank				
*	The c	uantity	y of wa	aste re	oresents past operational a	ctivities. There are n	o plans to ı	use these vessels	for mixed waste activities.				
36	D	0	0	2	90,992*	K	T01		Treatment-Tank				
37	D	0	0	4		K	T01		Treatment-Tank				
38	D	0	0	5		K	T01		Treatment-Tank				
39	D	0	0	6		K	T01		Treatment-Tank				
40	D	0	0	7		К	T01		Treatment-Tank				
41	D	0	0	8		K	T01		Treatment-Tank				

Photocopy this page before completing if you have more than 26 wastes to list.

I.D. Number (enter from page 1)				
W A 7		6 7		

1V. D	ESCR	IPTIO	N OF	DANG	EROUS WASTES (continued	<u>d)</u>								
Line	A Da	ıngerou	ıs Wast	e No	B. Estimated Annual	C IIn	it of M	easure		D. Processes				
No.	71. Du	(enter			Quantity of Waste		nter cod		1	. Proces			2. Process Description (if a code is not entered in D(1))	
42	D	0	0	9			K		T01				Treatment-Tank	
43	D	0	1	0			K		T01				Treatment-Tank	
44	D	0	1	1			K		T01				Treatment-Tank	
45	F	0	0	1			K		T01				Treatment-Tank	
46	F	0	0	2			K		T01				Treatment-Tank	
47	F	0	0	3			K		T01				Treatment-Tank	
48	F	0	0	4			K		T01				Treatment-Tank	
49	F	0	0	5			K		T01				Treatment-Tank	
50	W	Т	0	1			K		T01				Treatment-Tank	
51	W	Т	0	2			K		T01				Treatment-Tank	
*	The q	uantity	of wa	ste re	presents past operational ac	tivities.	There	are no	plans t	o use th	ese ve	ssels f	or mixed waste activities.	
52	D	0	0	2	1,085,878*		K		S02	T01			Storage-Tank/Treatment-Tank	
53	D	0	0	4			K		S02	T01			Storage-Tank/Treatment-Tank	
54	D	0	0	5			K		S02	T01			Storage-Tank/Treatment-Tank	
55	D	0	0	6			K		S02	T01			Storage-Tank/Treatment-Tank	
56	D	0	0	7			K		S02	T01			Storage-Tank/Treatment-Tank	
57	D	0	0	8			K		S02	T01			Storage-Tank/Treatment-Tank	
58	D	0	0	9			K		S02	T01			Storage-Tank/Treatment-Tank	
59	D	0	1	0			K		S02	T01			Storage-Tank/Treatment-Tank	
60	D	0	1	1			K		S02	T01			Storage-Tank/Treatment-Tank	
61	F	0	0	1			K		S02	T01			Storage-Tank/Treatment-Tank	
62	F	0	0	2			K		S02	T01			Storage-Tank/Treatment-Tank	
63	F	0	0	3			K		S02	T01			Storage-Tank/Treatment-Tank	
64	F	0	0	4			K		S02	T01			Storage-Tank/Treatment-Tank	
65	F	0	0	5			K		S02	T01			Storage-Tank/Treatment-Tank	
66	W	Т	0	1			K		S02	T01			Storage-Tank/Treatment-Tank	
67	W	Т	0	2			K		S02	T01			Storage-Tank/Treatment-Tank	
*	The q	uantity	of wa	ste re	presents past operational ac	tivities.	There	are no	plans t	o use th	nese ve	ssels f	or mixed waste activities.	
68														
69														

IV. DESCRIPTION OF DANGEROUS WASTE (contin	ued)						
E. Use this space to list additional process codes from Se	ction D(1) on page	3.					
							:
					-		
	. •	· · · · · · · · · · · · · · · · · · ·					
							:
V. FACILIITY DRAWING Refer to attached drawing(s).							
All existing facilities must include in the space provide	ed on page 5 a scale	drawing of the facilit	v (see ins	tructions fe	or more deta	il).	
VI. PHOTOGRAPHS Refer to attached photograph(s).	r o		, (•
All existing facilities must include photographs (aerial	or ground-level) th	at clearly delineate al	l existing	structures:	existing stor	rage, treat	tment
and disposal areas; and sites of future storage, treatment							
VII. FACILITY GEOGRAPHIC LOCATION	This infor	mation is provided or	the attacl	ned drawin	gs and photo	os.	
LATITUDE (degrees, minutes, & seconds) LONGITUDE (degrees, minutes, & seconds)							
					<u> </u>		
					<u> </u>		
VIII. FACILITY OWNER ☐ A. If the facility owner is also the facility operator as	listed in Section VI	I on Form 1 "Genera	1 Informat	ion " place	an "Y" in t	he hav ta	the
left and skip to Section XI below.	listed in Section Vi	Ton Form 1, Genera	i illioilliat	ion, piace	zan A mu	iic oox to	·
B. If the facility owner is not the facility operator as I	isted in Section VII	on Form 1, complete	the follow	ving items	:		
1. Name of Facility's	2. Phone Number (area code & no.)						
					· · · · · · · · · · · · · · · · · · ·		
	1		- a.		(n: 0	1	
3. Street or P.O. Box	4. City	or Town	5. St.		6. Zip Co	oae 	
IX. OWNER CERTIFICATION I certify under penalty of law that I have personally examined and	l am familiar with the	information submitted is	n this and a	ll attached a	documents an	d that has	ed
on my inquiry of those individuals immediately responsible for ob	taining the information	n, I believe that the subi	nitted infor	mation is tr	ue, accurate, a	and compl	ete.
I am aware that there are significant penalties for submitting fals Name (print or type) Signatu		ng the possibility of fine	and imprise		ate Signed		
Name (print or type) Keith A. Klein, Manager	7/ , ; / ,	//		ا	enc Signed	,	
U.S. Department of Energy	//////////////////////////////////////				6/2/0		
Richland Operations Office	WVILLX	<i>~</i>			<u> </u>		
X. OPERATOR CERTIFICATION	1 6 21: 12 12 1	i	a thin J -	Il attacks J	dommo-10 ===	d that be-	ad
I certify under penalty of law that I have personally examined and on my inquiry of those individuals immediately responsible for ob I am aware that there are significant penalties for submitting fals	taining the information	n, I believe that the subi	nitted infor	mation is tr	uocumenis, an ue, accurate, i	and compl	ete.
Name (Print Or Type) Signature		<u> </u>			Date Signed		
See attachment				-			:

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner/Operator

Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office

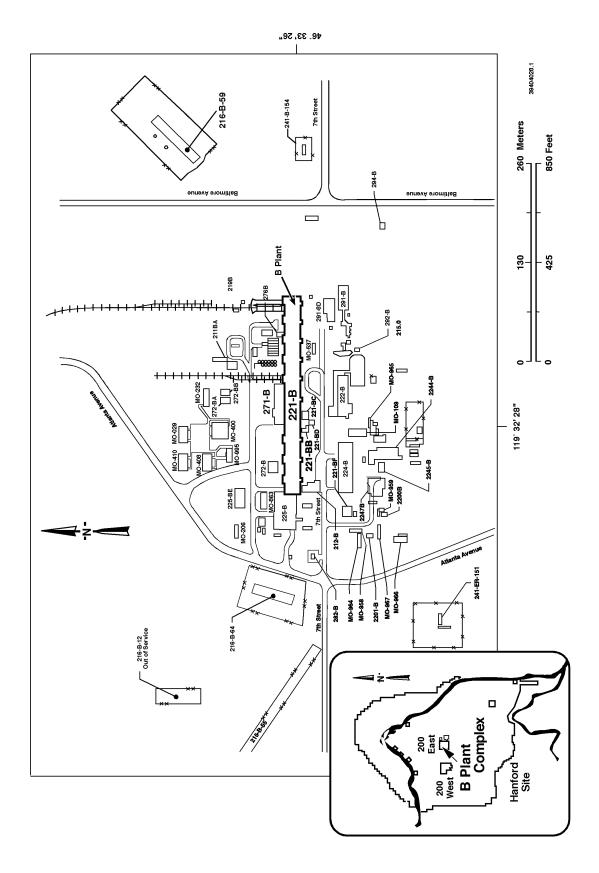
Co-operator

E. Keith Thomson President and

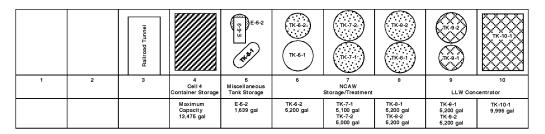
Chief Executive Officer

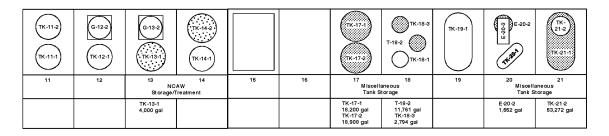
Fluor Hanford

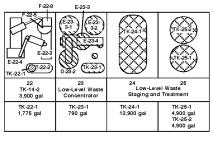


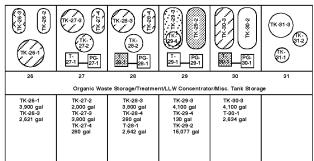


221-B Building Process Cells



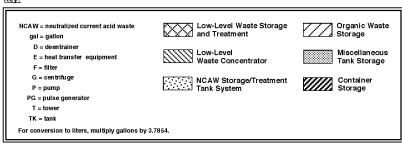






G- 32-2 (TK-32-1)	TK 93-1	F-34-3 TK-34-3 TK-34-3	TK-35-2 TK- 35-1	TK-36-3	TK-37-3	E- E-38-6 (8-8) 8-38-7 (8-8) E-38-4 (8-1) (8-1) 18-3 18-3 18-2	TK-39-5 39-4 TK-39-5 TK-39-3 TK-39-2	Sample Curve 226-5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
32 33 34 35 36 Miscellaneous Tank Storage				37	38	40		
TK-32-1 15,024 gal	TK-38-1 53,211 gal	TK-94-2 15,520 gal	TK-35-2 15,002 gal	TK-36-1 15,547 gal			TK-39-1 (LLW Concentrator) 3,466 gal TK-39-2 1,800 gal TK-39-5 2,000 gal	

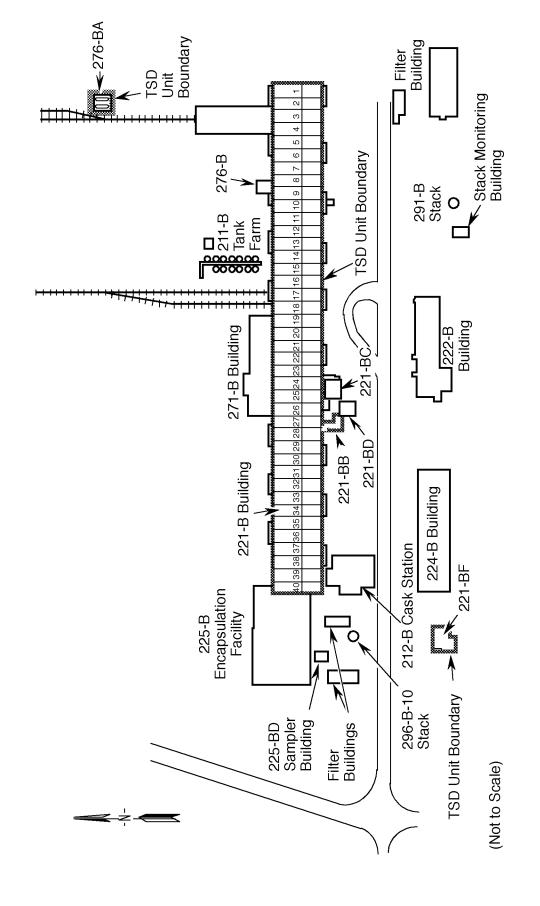
Key:



39402094.1R2

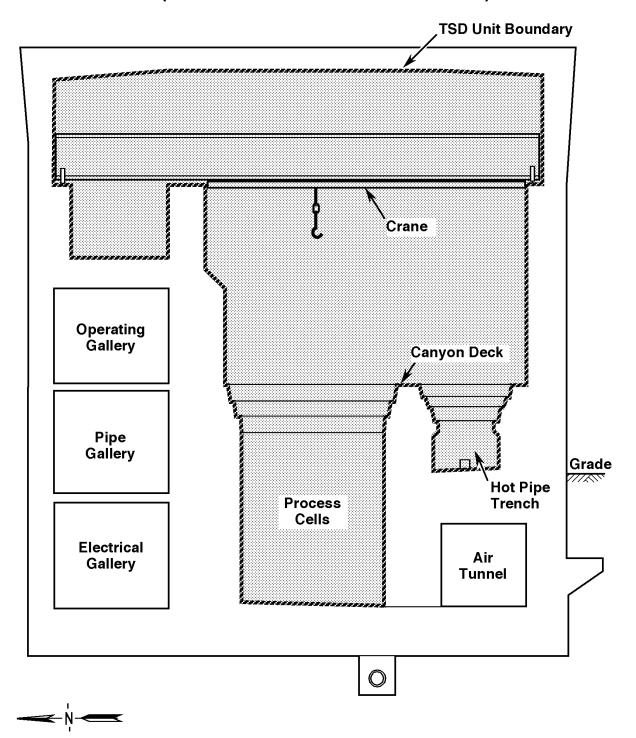
H95110328.3R1

B Plant Complex TSD Unit Boundary



Note: 221-BB, 221-BF, and 276-BA are included in the TSDUnit Boundary. The railroad tunnel is not included in the TSD Unit Boundary.

B PLANT COMPLEX TSD UNIT BOUNDARY (TYPICAL CROSS-SECTIONAL VEIW)



Not to Scale

Note: Shaded portions denote areas that are within the TSD Unit Boundary

H96030202.1R1

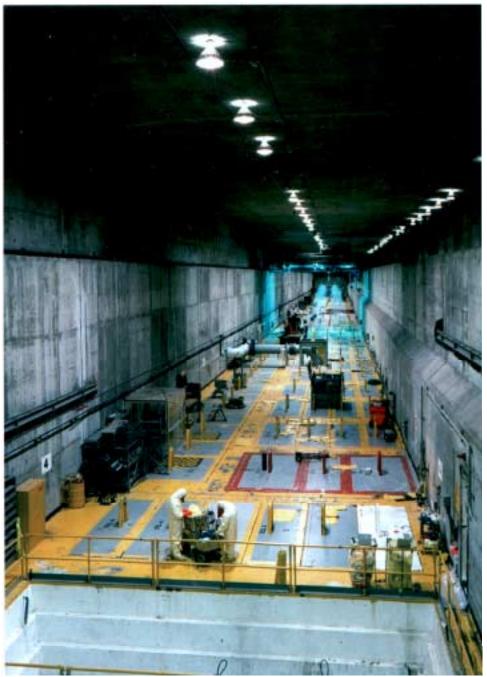
B PLANT COMPLEX (AERIAL VIEW)



46°33'26" 119°32'28"

98070285-72CN (PHOTO TAKEN 1998)

221-B BUILDING CANYON



46°33'26" 119°32'28"

98040211-8CN (PHOTO TAKEN 1998)

221-B BUILDING CELL 8

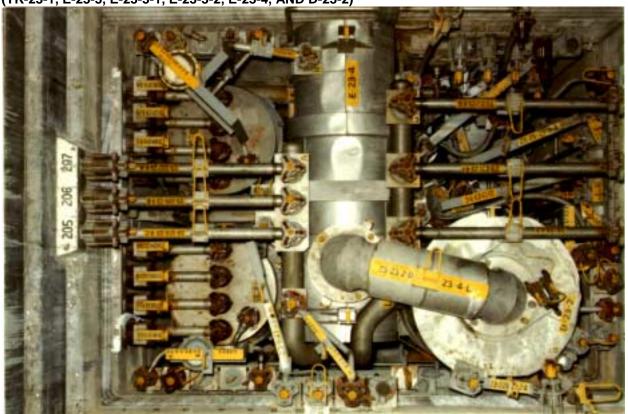
TOP VIEW - TYPICAL NCAW STORAGE AND TREATMENT TANK (TK-8-1 AND TK-8-2), TYPICAL CANYON CELL



46°33'26" 83107243-11CN 119°32'28" (PHOTO TAKEN 1983)

221-B BUILDING CELL 23

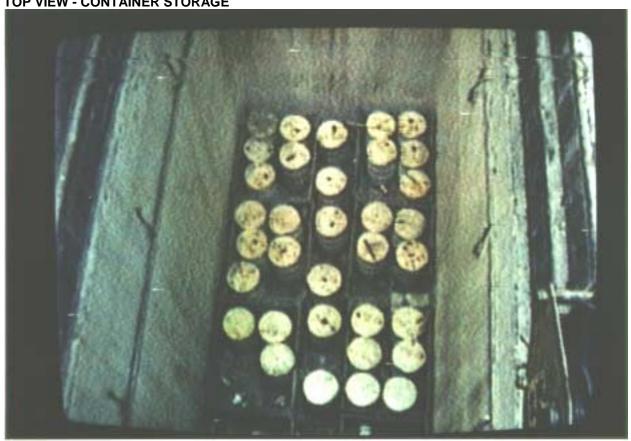
TOP VIEW - LOW-LEVEL WASTE CONCENTRATOR (TK-23-1, E-23-3, E-23-3-1, E-23-3-2, E-23-4, AND D-23-2)



46°33'26" 119°32'28" 83107243-40CN (PHOTO TAKEN 1983)

221-B BUILDING CELL 4

TOP VIEW - CONTAINER STORAGE



46°33'26" 119°32'28"

94040656-5CN (PHOTO TAKEN 1994)

276-BA FACILITY ORGANIC MIXED WASTE STORAGE SYSTEM

EXTERNAL ORGANIC MIXED WASTE STORAGE TANK (ISO EAST)



46°33'26" 119°32'28"

98110220-7CN (PHOTO TAKEN 1998)

221-BB BUILDING MISCELLANEOUS TANK STORAGE SYSTEM



46°33'26" 119°32'28"

98100330-8CN (PHOTO TAKEN 1998)

221-BF FACILITY MISCELLANEOUS TANK STORAGE SYSTEM



46°33'26" 119°32'28"

98110220-4CN (PHOTO TAKEN 1998)